

8-001 COASTAL PLAIN OF ORANGE COUNTY

Basin Boundaries

Summary

The Coastal Plain of Orange County groundwater basin underlies a coastal alluvial plain in northwestern Orange County. The basin is bound on the northwest and the north by the Los Angeles-Orange County line. The Whittier fault zone and consolidated rocks of the Puente Hills and Chino Hills bound the northeast extent of the basin. The basin is bound on the east by consolidated rocks of the Santa Ana Mountains and on the south by consolidated rocks of the Laguna Hills and San Joaquin Hills. The Pacific Ocean is the southwest extent of the basin. The groundwater basin is located in the lower Santa Ana River Watershed. Precipitation in the upper Santa Ana River watershed flows toward the Santa Ana River and Prado Reservoir. Controlled releases from Prado Dam supply the Santa Ana River in the lower Santa Ana River watershed. The basin boundary is defined by seven (7) segments detailed in the descriptions below.

Segment Descriptions

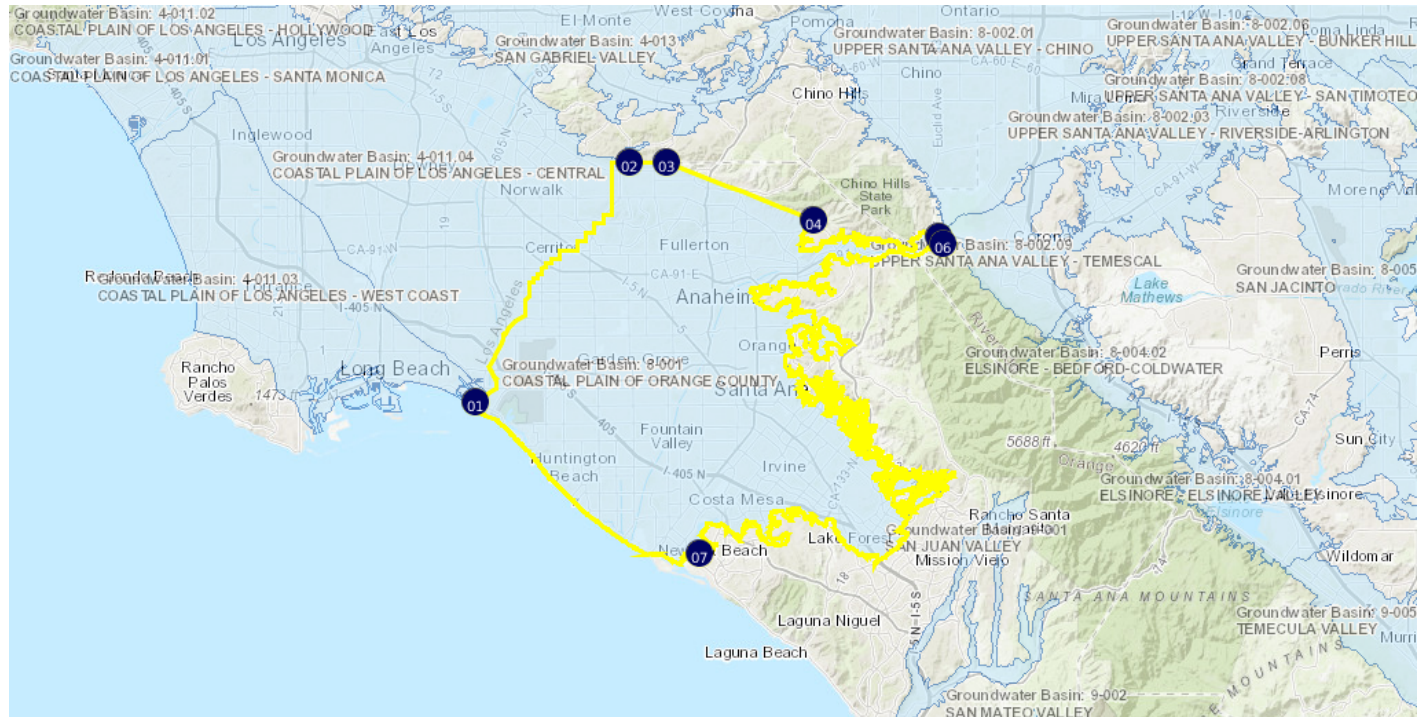
<u>Segment Label</u>	<u>Segment Type</u>	<u>Description</u>	<u>Ref</u>
1-2	^I County	Begins from point (1) and follows the Los Angeles-Orange County boundary, which approximates the location of a topographic divide, to point (2).	{a}
2-3	^E County	Continues from point (2) and follows the Los Angeles-Orange County boundary to point (3).	{a}
3-4	^E Fault	Continues from point (3) and generally follows the Whittier fault zone, a groundwater barrier except where breached by recent alluvium, to point (4).	{b}
4-5	^E Alluvial	Continues from point (4) and generally follows the contact of Quaternary alluvium with the Tertiary Sespe Formation, Topanga Sandstone, and the Monterey Formation to point (5).	{c}
5-6	^I Management Area	Continues from point (5) and follows the boundary of the City of Corona AB3030 Groundwater Management Plan to point (6).	{d}
6-7	^E Alluvial	Continues from point (6) and generally follows the contact of Quaternary alluvium with consolidated rocks of the Santa Ana Mountains and the San Joaquin Hills to point (7).	{c}
7-1	^E Ocean	Continues from point (7) and generally follows the Pacific Ocean coastline and ends at point (1).	{a}

Significant Coordinates

<u>Point</u>	<u>Latitude</u>	<u>Longitude</u>	
1	33.747694333	-118.111943972	
2	33.946103541	-117.959219411	
3	33.946077283	-117.921455946	
4	33.898300988	-117.775023025	
5	33.884830971	-117.649980248	
6	33.878021559	-117.645008112	
7	33.622207332	-117.889188636	

Map

8-001 COASTAL PLAIN OF ORANGE COUNTY



<https://sgma.water.ca.gov/webgis/?appid=160718113212&subbasinid=8-001>

References

Ref	Citation	Pub Date	Global ID
{a}	California Department of Forestry and Fire Protection (Cal Fire), California Counties and Paired Dataset (cnty15_1).URL: http://frap.fire.ca.gov/data/frapgisdata-subset	2/14/15	2
{b}	DWR 1967, Progress Report on Ground Water geology of the Coastal Plain of Orange County	1967	98
{c}	BBMRS	varies	45
{d}	City of Corona, AB3030 Groundwater Management Plan, June 2008	06/01/2008	104

Footnotes

- I: Internal
- E: External